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January 27, 2016

Docket Control  
Arizona Corporation Commission  
1200 W. Washington Street  
Phoenix, AZ 85007

RE: Arizona Public Service Company Time-of-Use ("TOU") Rates ET-2 and ECT -2  
Annual Report; Docket No. E-01345A-05-0674

Pursuant to Decision No. 68645 dated April 12, 2006:

APS will file with Docket Control annual reports that detail the load shape of the participants in the experimental rates ET-2 and ECT-2.

Attached is Arizona Public Service Company's 2016 annual report on the residential TOU rates ET-2 and ECT-2.

If you have any questions regarding this information, please contact Chuck Miessner at (602)250-3081.

Sincerely,

Kerri A. Carnes

KC/am

cc: Brian Bozzo

Arizona Corporation Commission

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**Arizona Public Service Company  
Residential Time-of-use Rates ET-2, ECT-2  
Compliance Report, Decision No. 68645, Docket  
No. E-01345A-05-0674  
Initial Filing, Docket No E-01345A- 07-0448  
January 27, 2016**

**Arizona Public Service Company**  
**Residential Time-of-use Rates ET-2, ECT-2**  
**Compliance Report, Decision No. 68645, Docket No. E-01345A-05-0674**  
**Initial Filing, Docket No E-01345A- 07-0448**  
**January 27, 2016**

**Background**

In July 2006, APS implemented the “series-2” residential time-of-use rate schedules, ET-2 and ECT-2, which have an on-peak period of noon to 7:00 p.m. Rate Schedule ET-2 has on-peak and off-peak energy charges. Rate Schedule ECT-2 has an on-peak demand charge in addition to on-peak and off-peak energy charges. The Company is also serving customers on the “series-1” residential time-of-use rate schedules ET-1 and ECT-1R which have an on-peak time period of 9:00 a.m. to 9:00 p.m. The series-1 time-of-use rate schedules were closed to new customers effective January 1, 2010. However, existing customers can continue service on the rates.

**Customer Participation**

As of December 2015, 299,026 customers are participating in the ET-2 rate. The year-over-year increase is 12,908 customers, a growth rate of 4.5%. For ECT-2, the participation is 93,597 customers and the year-over-year increase is 2,430, which is a growth rate of 2.7%. Overall, as of December 2015, the series-2 time-of-use rates have a total participation level of 392,623. This represents a year-over-year increase in customer participation of 15,338, which is a 4.1% increase.

**Load Shapes**

Average daily load shapes for the winter and summer seasons are derived from recorded load research data. The summer seasonal load shapes consist of hourly load data from May 2015 through October 2015. The winter load shape includes data from January 2015 through April 2015 and November 2015 and December 2014. The attached load shapes are provided for weekday and weekend days.

**Peak Usage and Shifting**

The ET-2 and ECT-2 summer weekday load shapes show a modest increase in usage after 7:00 p.m., when the on-peak period expires, which indicates that usage is being shifted to the off-peak hours. This impact is more pronounced for the ECT-2 rate which has an on-peak demand charge in addition to on-peak and off-peak energy charges.

In addition, as shown in Table 1, the percent kWh consumed during the noon to 7:00 p.m. on peak period for the summer season is approximately 25.3% for ET-2 and 23.3% for ECT-2, based on load research data.

Table 1

**Peak Consumption  
(12pm to 7pm)  
Time-Of-Use Rates**

| Rate Schedule | On-Peak Usage – Summer | On-Peak Usage – Winter |
|---------------|------------------------|------------------------|
| ET-2          | 25.3%                  | 18.4%                  |
| ECT-2         | 23.3%                  | 17.2%                  |

### Customer Bill Savings

As depicted in Table 2, customer savings from the series-2 time-of-use rates are significant when compared to the estimated revenue that participating customers would have paid under the standard non-time-of-use rate E-12. The total estimated bill savings is \$67,753,383 for ET-2 and \$34,542,729 for ECT-2, for a combined average savings of \$102,296,112 or 12.62%.

Table 2

**Estimated Customer Bill Savings  
Time-of-Use Rates  
(ET-2 and ECT-2)**

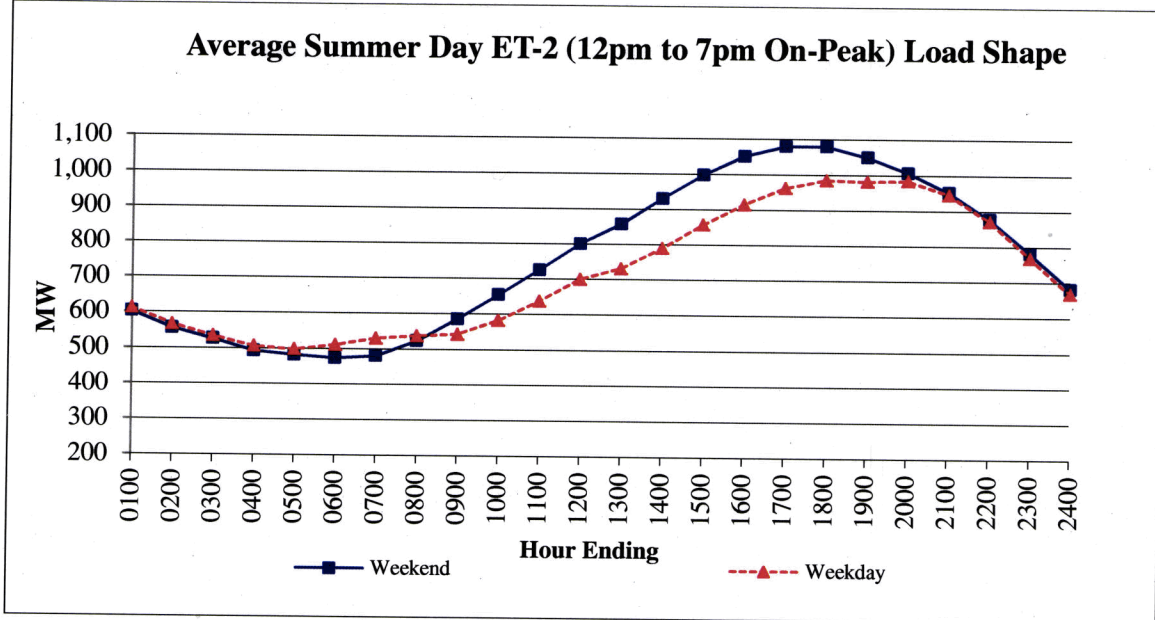
| Rate  | Bill Savings Compared with Non-TOU Rate E-12 | Average % Bill Savings per Customer |
|-------|--|-------------------------------------|
| ET-2  | \$ 67,753,383                                | 12.41%                              |
| ECT-2 | \$ 34,542,729                                | 13.06%                              |
| Total | \$ 102,296,112                               | 12.62%                              |

1. ET-2 and ECT-2 savings are estimated from customer monthly bill frequencies by kWh level and the rates that were in effect during the report period.

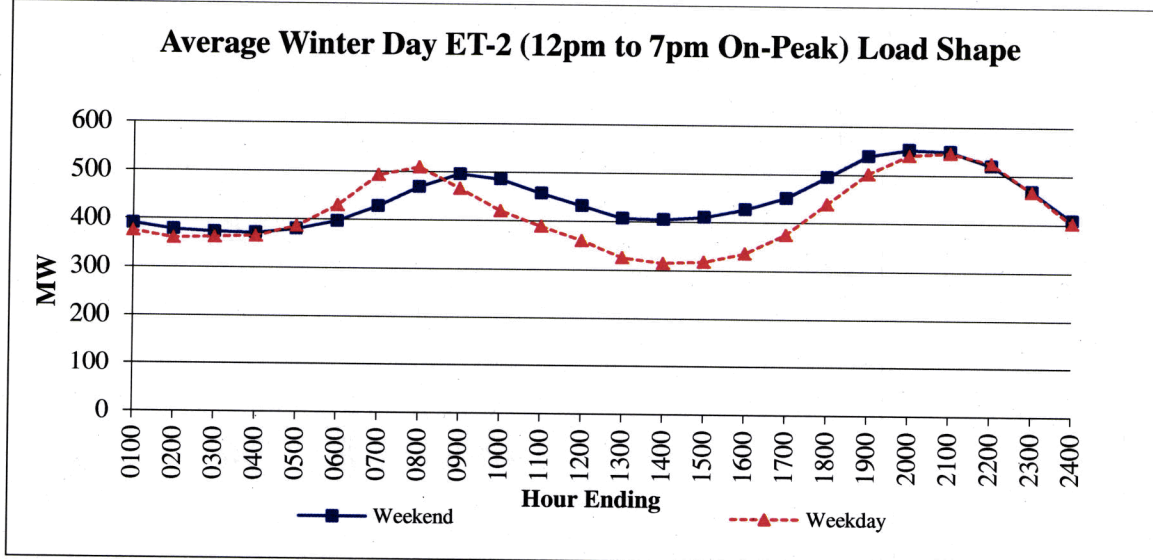
## Appendix A: LOAD SHAPES

The following load shapes display the average summer and winter usage for all customers who take service under the listed TOU rate.

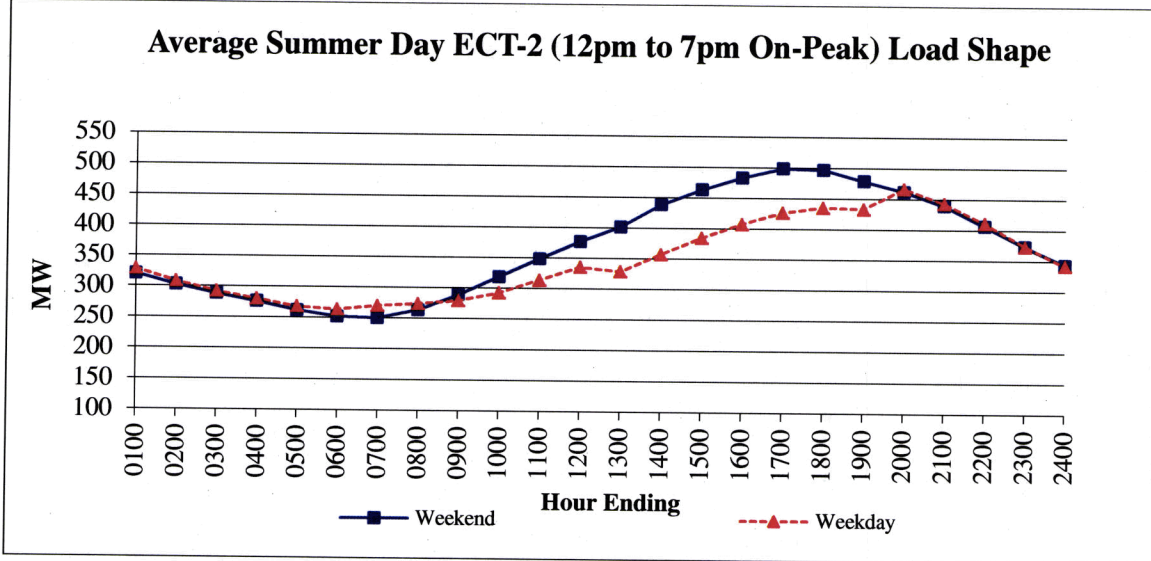
Graph 1



Graph 2



Graph 3



Graph 4

